



Environmental Management System Implementation

EPA's Environmental Science Center
701 Mapes Road
Ft. Meade, MD

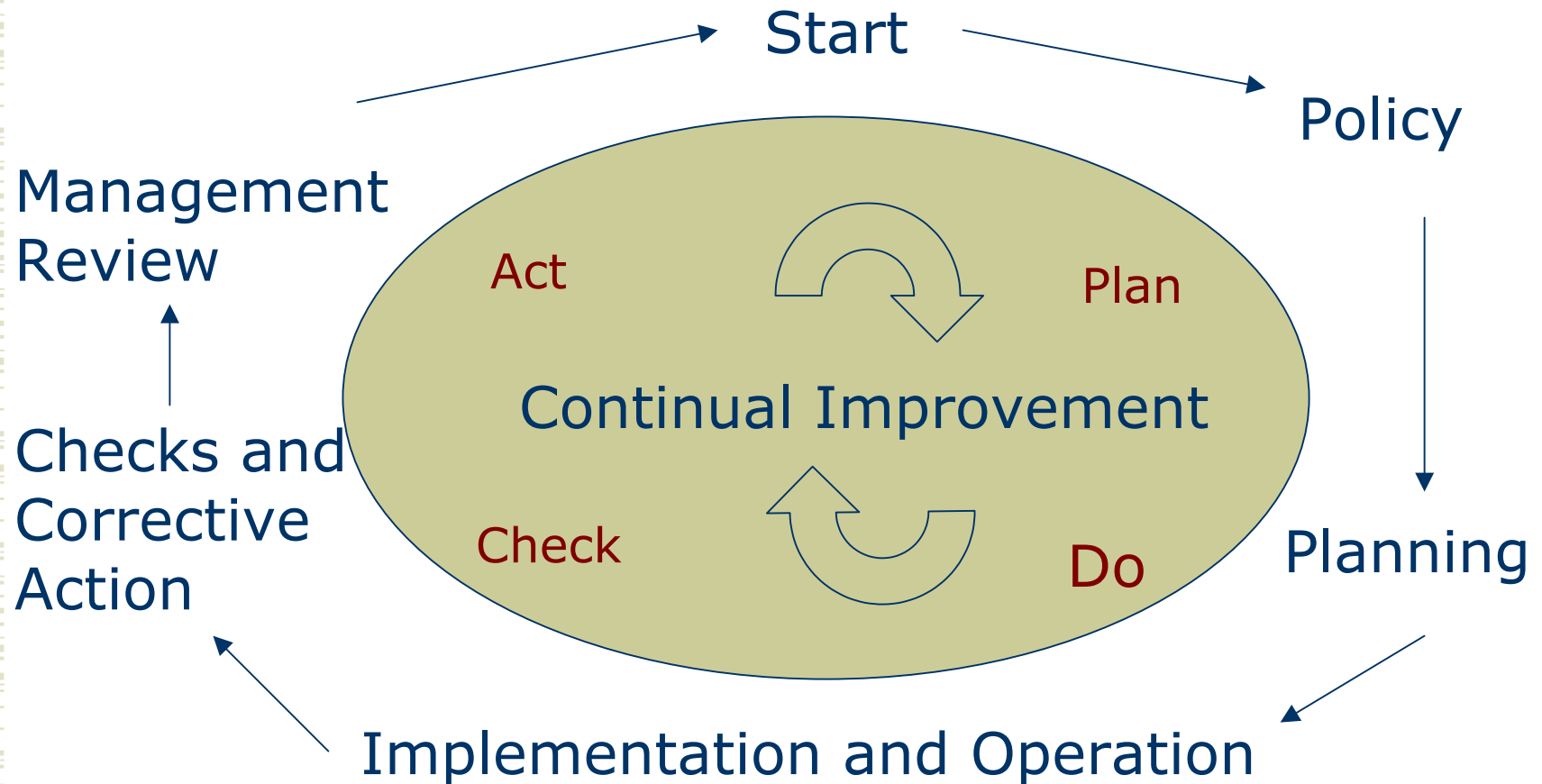
EMS Coordination Sessions
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Environmental Science Center EMS Briefing Objectives

- ◆ How Far Have We Come ?
- ◆ EMS Benefits and Registration
- ◆ New Initiatives and Opportunities To Get Involved
- ◆ EMS Responsibilities
- ◆ Next Steps

Environmental Science Center EMS

EMS Overview



Environmental Science Center EMS Planning

- ◆ Activity/Aspect/Impact Analysis
- ◆ Significance Criteria = Significant Aspects
- ◆ Draft Targets and Objectives
- ◆ Views of Interested Parties
- ◆ ESC Board Review of Targets and Objectives
- ◆ Final Targets and Objectives

Environmental Science Center EMS Identified Environmental Aspects

- ◆ Air Emissions
 - ◆ Fuel Consumption (Gas/Oil) *
 - ◆ Electricity Consumption
 - ◆ Fuel/Emissions Mobile *
 - ◆ Chemical Resources *
 - ◆ Radiation
 - ◆ Paper Consumption *
 - ◆ Water Consumption *
 - ◆ Wastewater Discharge
 - ◆ Waste Generation *
 - ◆ Storm water
 - ◆ *Noise*
 - ◆ *Microbial Contamination*
- * (New Initiatives)

Environmental Science Center EMS Fuel/Emissions Mobile Sources

◆ New Initiatives

- Review current fleet management for compliance and identify issues within 9 months
- Develop and implement improvement strategy within six months
- Promote staff awareness of impacts related to mobile source emissions

Environmental Science Center EMS Fuel (heating oil, gas) Consumption

◆ New Initiatives

- Track gas/oil usage as a result of HVAC optimization
- Establish a mechanism to review fuel consumption data and correlate with HVAC optimization data within six month

Environmental Science Center EMS Chemical Resources

◆ New Initiatives

- Develop strategy for source reductions & substitutions w/in 12 months
- Implement strategy within six months of strategy development



Environmental Science Center EMS Paper Consumption



◆ New Initiatives

- Develop a strategy to reduce paper consumption while increasing the recycled content and the percentage of paper recycled w/in 9 months

Environmental Science Center EMS Waste Generation

◆ New Initiatives

- Determine base amounts of recycled materials, hazardous waste, and non-hazardous waste within six months
- Develop strategy to implement opportunities for waste reduction within six months of determining base amounts

Environmental Science Center EMS Water Consumption

◆ New Initiatives

- Track water usage as a result of HVAC optimization
- Establish a mechanism to review water usage data and correlate with HVAC optimization data within six month
- Establish procedures for efficient use of water-intensive lab equipment

Environmental Science Center EMS Other Opportunities To Get Involved

- ◆ Join next EMS Team
- ◆ Participate in Internal Audits
- ◆ Identify Needed Corrective Actions
- ◆ Be Creative and Communicate Your Ideas

Environmental Science Center EMS Everyone's Responsibilities

- ◆ Be familiar with the EMS Policy
- ◆ Consider how your activities contribute to our significant aspects
- ◆ Be familiar with the EMS Manual
- ◆ Understand and follow EMS Procedures
- ◆ Participate

Environmental Science Center EMS Policy Commitments

- ◆ Integrate Environmental Stewardship into all facets of our Operation
- ◆ Manage Programs in a manner that Protects....
- ◆ Comply fully with the Letter and Spirit of all....
- ◆ To Consider Environmental factors....when making Planning, Purchasing and Operating Decisions.
- ◆ To Improve Environmental Management

Environmental Science Center EMS Policy Commitments

- ◆ To Provide Training and Educate Employees
- ◆ To Monitor, Prevent Pollution and Use Energy Efficiently
- ◆ To Maintain and Improve Grounds, Work Cooperatively with Local Community, and Communicate This Policy

Environmental Science Center EMS Documentation

- ◆ EMS Manual + Referenced Documents
- ◆ EMS Procedures
- ◆ EMS Records
 - Monitoring
 - Maintenance
 - Reports
 - Meeting Minutes

Environmental Science Center EMS

How Will The EMS Operate ?

- ◆ EMS Team - track completion of Targets and Objectives
- ◆ ESC Board - maintain policy and decide resource allocations
- ◆ ESC SHEM Manager - continue compliance and waste management focus
- ◆ EMS Coordinator – documentation and ISO 14001 conformance

Environmental Science Center EMS Next Steps

- ◆ Launch new initiatives
- ◆ Complete EMS documentation
- ◆ Perform Internal Audit
- ◆ Perform Management Review
- ◆ Construct Next EMS Team
- ◆ Register Through Third Party Audit
- ◆ Continual Improvement of The System